

Date: Sun, 4 Sep 94 04:30:23 PDT
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #314
To: Ham-Equip

Ham-Equip Digest Sun, 4 Sep 94 Volume 94 : Issue 314

Today's Topics:

 AM gear for sale
 CB antenna questions.
 FS: 2 meter amp.
 FS: Azden 2 meter HT
 ft-2400 & mid-high pwr hum
 HTX-202 Low Batt Volt
 Icom IC02AT - what goes wrong out of band?
 Info on Mac-Key P-500 Bug
 Kenwood TM-732A Help Request
 Kenwood TM-733A PL Tone distortion service bulletin
 Packet modem
 Radio Shack HTX-202--a good choice? (3 msgs)
 Xcvt with built in ID modem

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 3 Sep 1994 12:52:47 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!library.ucla.edu!csulb.edu!csus.edu!
netcom.com!ix.netcom.com!netnews@network.ucsd.edu
Subject: AM gear for sale
To: ham-equip@ucsd.edu

Gonset G28 6 meter am transmitter - \$40

Millen exciter 98001 and modulator 98031. Rack mount, 50 and 40 watts,
6146's. \$110

Greg - Boston - KA1KTW

Date: Fri, 2 Sep 1994 10:54:00 GMT
From: xnet!quake.xnet.com!hamshack!greg.rusenovich@uunet.uu.net
Subject: CB antenna questions.
To: ham-equip@ucsd.edu

RB>Here's my situation:

RB>I just bought a 5-watt radio shack CB and a magnetic mount mobile CB
RB>antenna. I also bought an SWR meter. I hooked it all up and it worked
RB>fine, so i started adjusting the antenna according to the manual that
RB>came with it to get peak performance. I hooked my SWR meter up,
RB>calibrated it, and got about 1.6 on channel 1 and 3.2 on channel 40.
RB>So I started trimming the antenna down. I probably took about 1/2" -
RB>3/4" off of the length, and ended up with about 1.1 or 1.0 on channel
RB>1 and 2.4 on channel 40. Should I keep going to get channel 40 down?
RB>Did I go too far?

What I would suggest is to set your peak performance for ch 19 or 20,
which is the center of the band, and you can tell when you are set near
the peak when ch 40 and ch 1 are near equal, and 19 is near 1.0

RB>Another question: People on the airwaves report my signal to me in
RB>"pounds". Someone 1-3 miles away said I was coming in at about 6 or 7
RB>pounds. I was talking to someone 10-15 miles away as well with
RB>limited success and to someone 4 or 5 miles at 3 pounds. What is a
RB>"pound"? Will this increase as my SWR ratios improve? Will my range
RB>decrease significantly as a result from the antenna trimming?

They are reporting to you the dB of the signal they are receiving, and
in CB lingo, this is commonly called "pounds".

The closer you get to 1.0 on your SWR, the stronger your signal. Also if
you get a noise limiting, or amplified mic., your signal will be more
readable at the outer limits. Also placement of your antenna is
important. If you mount your antenna on the rear of your car, you
usually will get a stronger signal forward. I also prefer "base loaded"
antennas, they seem to work better with my experience.

* CMPQwk #1.4* UNREGISTERED EVALUATION COPY

Date: 3 Sep 1994 06:47:08 -0700
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!

vixen.cso.uiuc.edu!uwm.edu!news.alpha.net!mvp.saic.com!bethel.connected.com!
hebron.connected.com!not-for-mail@network.ucsd.edu
Subject: FS: 2 meter amp.
To: ham-equip@ucsd.edu

It's me. (00wmsmith@bsuvc.bsu.edu) wrote:
: I have an rfconcepts 2 meter amp for sale. Excellent condition.

What are the specs
Power in/Power out
SSB?
Pre amp?

Date: 2 Sep 94 09:17:28 -0500
From: ihnp4.ucsd.edu!agate!spool.mu.edu!news.nd.edu!bsuvc.bsu.edu!
00wmsmith@network.ucsd.edu
Subject: FS: Azden 2 meter HT
To: ham-equip@ucsd.edu

I have an Azden PCS300 for sale. It's ugly, but it works. Asking \$75.

Reply to 00wmsmith@bsuvc.bsu.edu

Bill Smith
N9MBB

Date: 3 Sep 1994 22:30:22 GMT
From: beyond.escape.com!escape.com!dmobley@uunet.uu.net
Subject: ft-2400 & mid-high pwr hum
To: ham-equip@ucsd.edu

i have a ft2400 which rarley gets used, but recently i have been getting
a hum on the mid power and high power settings. in the low setting it is
crystal clear, but the other 2 cause the hum. i did notice that if i take
the aluminum sheld off the bottom of the radio, the hum is not there.
also this hum is intermitant, it come and goes, but it mostly comes. any
suggetions???

Dexter
n2pwg

<-- My Sig.

Date: Fri, 2 Sep 1994 15:01:00 GMT
From: news.cerf.net!gopher.sdsc.edu!news.tc.cornell.edu!

travelers.mail.cornell.edu!news.kei.com!yeshua.marcam.com!zip.eecs.umich.edu!
newsxfer.itd.umich.edu!gatech!howland.reston@ihnp4.ucsd.edu
Subject: HTX-202 Low Batt Volt
To: ham-equip@ucsd.edu

The HTX-202 will accept some of Icom's batteries (Periphex, too!) for additional power. I also use my HTX-202 with Quantum's 2.1AmpHour HAM BATTERY (with Quantum's HB-4 Adapter).

For both of you, here's some HTX-202 Battery texts I have collected:

Most HTX-202s will not take a BP-7 Icom pack. The BP-8 usually works well. If the Zener diode in the bottom-feed circuit is bad, only a 9.6-vdc pack or less will work. A minor headache at the very least.

ALWAYS: Slide off your NiCad pack when using external DC power from your vehicle or a power supply! Leaving the pack on while mobile puts too much burden on the Zener diodes, and generates heat at twice the normal rate. Save your radio and take off the pack!

Unlike it's Icom brother, the 202 will not top charge an Icom pack while on external DC power. Refer to the warning above!

WARNING: DO NOT ATTEMPT TO BOTTOM-CHARGE THE STOCK NICAD PACK IN AN ICOM BC-35 OR CLONE CHARGER.

* QMPro 1.52 * Nothing in fine print is ever good news.

Date: 1 Sep 1994 13:57:09 -0700
From: ihnp4.ucsd.edu!sdd.hp.com!spool.mu.edu!howland.reston.ans.net!swrinde!
gatech!newsxfer.itd.umich.edu!nntp.cs.ubc.ca!unbc.edu!unbc.edu!not-for-
mail@network.ucsd.edu
Subject: Icom IC02AT - what goes wrong out of band?
To: ham-equip@ucsd.edu

Hello all:

I recently acquired an older IC02AT which has been modified to go out of band (at least on RX) and it seems to have some sort of problem. Years ago I had one of the same radios, but I can't recall what tricks and traps were involved in sliding it out of band. The symptoms appear as an apparent error in the frequency. In-band seems to work OK, at least on RX I can't hear any frequency error. When I go out of band, to the local police channel on 139.XX, the squelch doesn't work properly, and if I

unsquelch the radio, I can tell that a carrier and voice is there but I can't hear them properly. If I shift up or down 5 khz, I lose the carrier. It seems to me almost as if the frequency is falling right in between the proper channels, i.e. 2.5 khz off. Does anyone have any experience with this sort of problem? Do I need a recalibration of the PLL reference, or does the VCO tank circuit need modifications?

Thanks,
Larry Gadallah VE4TCP/VE7
gadallah@netcom.com

Date: Fri, 02 Sep 94 16:00:47 EST
From: ihnp4.ucsd.edu!sdd.hp.com!math.ohio-state.edu!howland.reston.ans.net!wupost!
slacc.com!nf0r@network.ucsd.edu
Subject: Info on Mac-Key P-500 Bug
To: ham-equip@ucsd.edu

I recently acquired a Mac-Key P-500 bug. It is in the original wooden shipping box and has the Mac-Cord assembly.

Wondering if a serious key collector can tell me roughly when this bug was manufactured? I'm guessing it's post-WWII but.....

Also, this particular example has identical flat (shaped) fingerpieces but no round knob on the right side. Is this common or is the knob missing. The plastic finger piece shows no signs tha it was ever installed (circular scratches etc).

Finally, did Mac-Keys come with an "owners manual"? I would assume so. Is there someone I might be able to contact to get one.

Thanks for wading through this. Any help you can pass along will definitely be appreciated. 73 de Dave nf0r@slacc.com

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SLACC STACK BBS - St. Louis, Missouri USA
The Bulletin Board Service of the St. Louis Area Computer Club
For information, email to: server@slacc.com Subject: HELP
+1 314.367.1903

Date: 3 Sep 1994 06:44:47 -0700
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!
vixen.cso.uiuc.edu!uwm.edu!news.alpha.net!mvp.saic.com!bethel.connected.com!
hebron.connected.com!not-for-mail@network.ucsd.edu

Subject: Kenwood TM-732A Help Request
To: ham-equip@ucsd.edu

Ryan Mcneilly (ryanm@u.washington.edu) wrote:
: that speaks English to write the stinken manual. My dad and I can't
: figure out how to make the DTSS function work on our new TM-732A. We

I to have a TM-732a and I have no problem with the DTSS feature although
I don't use it now.

Do you have the TSU-7 (DTMF/CTCSS decoder unit)?
One possibility of a problem is if the radio that you are sending DTMF is
not sending clean DTMF. Many radios, including brand new ones, have to
have the DTMF checked to make sure they are producing the correct tones.
If the radio works with other DTMF equipment the tones might be marginally
bad. or possibly the sending unit is too close to the 732 and overdriving it.

Try that and let me know...

toddw@hebron.connected.com

Date: 2 Sep 1994 23:27:18 -0500
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!cs.utexas.edu!
gerald@cc.utexas.edu!austin.lockheed.com!not-for-mail@network.ucsd.edu
Subject: Kenwood TM-733A PL Tone distortion service bulletin
To: ham-equip@ucsd.edu

Wonder if Kenwood started including the FIX with certain serial
numbers? I have not noticed the problem on my TS-733A. I have only
had it for about two weeks. Hate to send it to Kenwood for an
extended vacation if the fix is already included from the factory.

My S/N is 60102204

Dick Kriss, KD5VU

=====
Richard (Dick) Kriss E-Mail:kriss@austin.lockheed.com
904 Dartmoor Cove Packet Radio: SP KD5VU @ W5SYT.#AUS.TX.USA.NA
Austin, Texas 78746 Phone: 512-386-4153 (day) or 327-9566 (evenings)
 AMPRnet: kd5vu@kd5vu.ampr.org [44.76.1.40]

My employer has nothing to do with this message! ... _._

Date: 2 Sep 94 09:32:23 -0500
From: ihnp4.ucsd.edu!agate!spool.mu.edu!news.nd.edu!bsuvc.bsu.edu!
00wmsmith@network.ucsd.edu
Subject: Packet modem
To: ham-equip@ucsd.edu

I have a Baycom packet modem for sale. It's new - never been on the air.
Includes modem and software. Asking \$50.

Reply to 00wmsmith@bsuvc.bsu.edu.

Bill Smith
N9MBB

Date: Tue, 30 Aug 1994 11:44:00 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!iat.holonet.net!ectech!
clint.bradford@network.ucsd.edu
Subject: Radio Shack HTX-202--a good choice?
To: ham-equip@ucsd.edu

(Continued from previous message)

Korean source for cheap gadgetry: MAXON. Maxon then built the
HTX-202 for Tandy, under license from Icom. The HTX-202 is
surprisingly sturdy, and well constructed, considering that
Maxon's Quality Control has, in the past, been suspect.

Most HTX-202s will not take a BP-7 Icom pack. The BP-8 usually
works well. If the Zener diode in the bottom-feed circuit is bad,
only a 9.6-vdc pack or less will work. A minor headache at the
very least.

ALWAYS: Slide off your NiCad pack when using external DC power from
your vehicle or a power supply! Leaving the pack on while mobile puts
too much burden on the Zener diodes, and generates heat at twice the
normal rate. Save your radio and take off the pack!

Unlike it's Icom brother, the 202 will not top charge an Icom pack
while on external DC power. Refer to the warning above!

WARNING: DO NOT ATTEMPT TO BOTTOM-CHARGE THE STOCK NICAD PACK IN AN
ICOM BC-35 OR CLONE CHARGER.

DESIGN FLAW: Some early production (S/N 2500 and down) radios had
the NiCad Zener Diode located too close to the finals, causing

final transistor failure when used on external DC with the pack in place. This was remedied in production, and Tandy will remedy under warranty.

* QMPro 1.52 * Dogs come when you call. Cats have answering machines.

Date: Tue, 30 Aug 1994 11:44:00 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!iat.holonet.net!ectech!
clint.bradford@network.ucsd.edu
Subject: Radio Shack HTX-202--a good choice?
To: ham-equip@ucsd.edu

>: may be a FAQ, I would like to know the consensus
>: of the on-line ham community on the pros and cons
>: of the HTX-202 before I call up those nice people
>: in Texas and get me one real cheap. Thanks for
>: your advice. --Bill Ruth pruth@ocvaxa.cc.oberlin.edu

S>I heard that HTX-202 is a very decent 2M radio for the price. RS has it on
>sale from time to time. The last time I checked was around \$188 during the
>Dayton Ham convention.

The HTX-202 has 12 independently-programmable memory channels, plus one calling and three priority channels. It comes with continuous tone squelch encode -AND- decode. Power output is 5 watts minimum (7w typical) with 12 VDC supply, 3 watts @ 9 VDC or 2 watts @ 7.5 VDC. Low power setting provides 1 watt output. A power saver circuit with programmable 1/2, 1/4, 1/8, or 1/16-second duty cycle. Batteries are compatible with larger ICOM (IC-2AT/IC-32AT) series HTs.

Repeater offset can be adjusted from 0 to 4 MHz in steps as set by the scan frequency step selection (5, 10, 20, 25, 50 or 100 KHz). Memories store any offset, and any combination of continuous tone frequencies.

Size is 65 x 117 x 37 mm. To put this in perspective, with alkaline packs on the 202 and my ICOM W2A, both are the same thickness. The 202 is maybe 1/4-inch wider (at widest part), and 1/16-inch taller (it's hard to compare because of the irregular shapes of HTs.) The HTX-202 does give the impression of being a "mid-size" HT until viewed up against something like the little W2A, which actually has three different "widths."

Supplied with Nicad battery, charger, 6-cell alkaline battery

case, antenna, wrist strap and belt clip.

Now, the good stuff...

- * True FM modulation (not phase modulation) for outstanding transmit audio and best performance in packet service.
- * Continuous tone squelch transmit and receive tones are independently programmable.
- * In addition to DTMF dialing, there is 5-digit DTMF selective paging (DTMF squelch).
- * A five-number memory dialer that stores 15-digit sequences for autopatch use or DTMF paging.
- * Scan for either active -- or vacant -- channels, with programmable scanning step of 5, 10, 20, 25, 50 or 100 KHz, and upper and lower scan limits (for VFO scan.)
- * FAST, 25 channels/second scanning.
- * Selectable priority channel scan interval, every 4, 8, 12 or 16 seconds.
- * Multi-function scanning lets you scan standard memories, priority freq. memories, or a frequency range. Resume can be after 10 seconds, when carrier drops, or remain on channel (don't resume.)
- * Transmit timeout - if you frequently time-out your local repeater, this circuit will stop transmitting after a preset delay (30, 60 or 120 sec.) and sound a beep. In effect, it forces you to reset the repeater before the repeater times out. Of course you can disable the timeout circuit.
- * The HTX-202 carries a 1-year parts and labor warranty.

Subjectively, this HT has exceptionally strong, un-distorted receive audio you'll really appreciate when walking around the local (noisy) hamfest. You won't believe the sound is coming from an HT! Transmit audio is crisp, clear and strong.

I put a 5/8-wave mag mount on my car, and used the 202 in the very intermod-rich downtown Ft. Worth, TX area. I've never been able to use an HT on an outside antenna within 2 miles of downtown Ft. Worth before. This one performed magnificently. My ICOM 2400 dual-band mobile gets less intermod than any other radio I've used in this environment, and the HT stayed with it, toe-to-toe. When the ICOM heard intermod, the 202 heard it, but when the ICOM was quiet, SO WAS THE HT!!!!

Even more impressive, the HTX-202 heard signals through the intermod, when the IC-2400 could not pull 'em out! Reason is probably because we purposely limited coverage to ham band ONLY! It can't be modified for out-of-band receive. The design objective was to build a specialized ham radio product that does the best

possible job on the ham bands, and that includes the tightest, most intermod-free front end we could design into an HT! The published spec says intermod attenuation is 60db minimum. Spurious response and adjacent channel rejection are also 60db.

The HTX-202 is based on the ICOM 02AT with certain design modifications based on Tandy's specs. These variations include the encode/decode, additional memories, and a full width LCD display. Contrary to rumor, no part of the radio is Kenwood or Yaesu! ICOM sold the rights to their design to Tandy to do with what they would.

When Tandy sought to produce the unit, they went to their usual

(Continued to next message)

* QMPro 1.52 * Dogs come when you call. Cats have answering machines.

Date: Sat, 3 Sep 1994 14:56:36 GMT
From: iglou!iglou!davidm@uunet.uu.net
Subject: Radio Shack HTX-202--a good choice?
To: ham-equip@ucsd.edu

In article <940902194053458@ectech.com>,
clint.bradford@ectech.com (Clint Bradford) wrote:

>> Most HTX-202s will not take a BP-7 Icom pack. The BP-8 usually
>> works well. If the Zener diode in the bottom-feed circuit is bad,
>> only a 9.6-vdc pack or less will work. A minor headache at the
>> very least.

Out of curiosity, what is the problem with using the BP-7? I've been using 3 different BP-7 packs on my 202 for about a year and a half...is there a problem with this?

David
davidm@iglou.com

Date: Fri, 2 Sep 1994 11:44:57
From: ihnp4.ucsd.edu!news.cerf.net!biivax.dp.beckman.com!phoenix.dse.beckman.com!
mike-havener-s!mdhavener@network.ucsd.edu
Subject: Xcvt with built in ID modem
To: ham-equip@ucsd.edu

A friend of mine is looking for a Kenwood xcvr with a built in ID modem. He said that he thinks it's a Kenwood TH 4100, but he's not sure. If you have any information on the topic, you can leave him a message at btbomar@ccgate.dp.beckman.com.

Thanks,

mdhavener@ccgate.dp.beckman.com

End of Ham-Equip Digest V94 #314
